



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ashley J. Birkett) PATENT
Serial No.: 09/930,915) Attorney Docket
Filed: August 15, 2001) ICC-102.2
For: IMMUNOGENIC Hbc CHIMER) (4564/81175)
PARTICLES HAVING ENHANCED)
STABILITY) Group Art No.
Examiner: Michael McGaw) 1648

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Additional art that may be material to the prosecution of this application has come to the attention of the applicants. Thus, pursuant to 37 C.F.R. §1.97, a list of documents that may be material to the examination of this application is provided on the attached Form PTO-1449. Listed Documents B1-B18 are U.S. patents, Documents B18-B30 are foreign patents or applications, and Documents B31-B85 are articles. Copies of Documents B1-B85 are bound in three volumes and are enclosed herewith.

Also separately enclosed, but not listed on Form PTO-1449, are copies of four Office Actions from co-pending application Serial No. 09/931,325 mailed February 10, 2003, October 20, 2003, January 28, 2004 and March 9, 2004, respectively. Those copies are marked as Exhibits A, B, C and D, respectively.

No inferences should be drawn that the attached list represents a comprehensive investigation, or that any material disclosed is equivalent to the subject invention. In addition, none of the documents that have publication dates prior to the priority date of the above application anticipate the invention in this application.

The cited documents disclose numerous specific features. There has been no attempt to list each and every feature disclosed by each document. The Examiner is requested to review the documents and determine the extent of the materiality of the document disclosures with respect to the present invention.

The discussion of any art and the citation of any document herein is not to be construed as an admission that the art or document disclosure is necessarily within the invention field of endeavor, that the art or document disclosure is necessarily prior in time to a particular date which may be relevant to the instant patent application, and/or that the art or document disclosure is otherwise necessarily prior art as defined by the patent law with respect to the instant invention and application.

Also, there is reserved the right to later set forth how the instant invention is distinguished over the disclosure of any document or other art, including the disclosures of the art and documents recited herein, that may be cited by the Examiner in rejecting a claim in the instant patent application.


The recitation herein of the art and documents is not to be construed as an assertion that more pertinent art could not possibly be in existence.

The fee as set forth in 37 CFR § 1.17p is also enclosed. No further fee or petition is believed to be necessary. However, should any further fee be needed, please

charge our Deposit Account No. 23-0920, and deem this paper to be the required petition.

The Examiner is requested to phone the undersigned should any questions arise that can be dealt with over the phone to expedite this prosecution.

Respectfully submitted,

By 
Edward P. Gamson, Reg. No. 29,381

Enclosures

Form PTO-1449 and Bound Art, three volumes
Exhibits A-D
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Self-addressed Post Card

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CERTIFICATE OF MAILING

I hereby certify that this Supplemental Information Disclosure, Form PTO-1449, Exhibits A-D and Bound Art are being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop DD, Commissioner For Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on May 7, 2004.



(Rev. 5/92) Copyright © 1992 Form PDS-100-01	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. ICC-102.2 (4564-81175)	Serial No. 09/930,915
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicants Ashley J. Birkett	
		Filing Date August 15, 2001	Group 1648

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	B1	4,539,205	09/03/1985	Goodman, et al.	514	45
	B2	4,643,992	02/17/1987	Goodman, et al.	514	45
	B3	4,767,842	08/30/1988	Stevens	530	324
	B4	4,987,237	01/22/1991	Myers, et al.	549	222
	B5	5,011,828	04/30/1991	Goodman, et al.	514	45
	B6	5,023,179	06/11/1991	Lam, et al.	435	172.3
	B7	5,057,540	10/15/1991	Kensil, et al.	514	25
	B8	5,093,318	03/03/1992	Goodman, et al.	514	45
	B9	5,110,732	05/05/1992	Benfey et al.	435	172.3
	B10	5,297,441	03/29/1994	Smith et al.	73	860
	B11	5,387,744	02/07/1995	Curtiss, III et al.	424	235.1
	B12	5,618,988	04/08/1997	Hauptmann, et al.	800	205
	B13	5,656,472	08/12/1997	Ausich et al.	435	193
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	B16	5,888,799	03/30/1999	Curtiss, III	435	252.3
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	B18	6,086,901	07/11/2000	O'Hagan, et al.	424	283.1

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	B19	GB 2,122,204 A	01/11/1984	GB			
	B20	WO 91/13922	09/19/1991	PCT			
	B21	EP 399 843 B1	11/28/1990	EP			
	B22	WO 95/17210	06/29/1995	PCT			
	B23	EP 421635 B1	04/10/1991	EP			
	B24	WO 96/02555	02/01/1996	PCT			
	B25	WO 96/33739	10/13/1996	PCT			
	B26	EP 671,948 B1	09/20/1995	EP			
	B27	EP 689,454 B1	01/03/1996	EP			
	B28	WO 99/07839	02/18/1999	PCT			

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH /B.P./

(Rev. 5/92) Comparable to Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. ICC-102.2 (4564-81175)		Serial No. 09/930,915	
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Applicants Ashley J. Birkett				Filing Date August 15, 2001		Group 1648	
FOREIGN PATENT DOCUMENTS							
B29	WO 99/52549	10/21/1999	PCT				
B30	WO 01/41759	06/14/2001	PCT				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
B31	BENFEY et al., "Regulated Genes in Transgenic Plants", <i>Science</i> (April 1989) 244:174-181						
B32	BIRKETT et al., "A Modified Hepatitis B Virus Core Particle Containing Multiple Epitopes of the <i>Plasmodium falciparum</i> Circumsporozoite Protein Provides a Highly Immunogenic Malaria Vaccine in Preclinical Analyses in Rodent and Primate Hosts", <i>Infection and Immunity</i> (December 2002) 70(12):6860-6870						
B33	BLACK, et al., "Antibody Response to the M2 Protein of Influenza A Virus Expressed in Insect Cells", <i>J. of General Virol.</i> (1993) 74:143-146						
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B41	ENGELHARD et al., "The Insect Tracheal System: A Conduit for the Systemic Spread of <i>Autographa Californica</i> M Nuclear Polyhedrosis Virus", <i>Proc. Natl. Acad. Sci., USA</i> (April 1994) 91:3224-3227						
B42	GALIBERT et al., "Nucleotide sequence of the hepatitis B virus genome (subtype ayw) cloned in <i>E. coli</i> ", <i>Nature</i> (October 1979) 281:646-650						
B43	GALIBERT et al., "Nucleotide Sequence of a Cloned Woodchuck Hepatitis Virus Genome: Comparison with the Hepatitis B Virus Sequence", <i>J. Virol.</i> (January 1982) 41(1):51-65						
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B50	LAZDINA et al., "Priming of Cytotoxic T Cell Responses to Exogenous Hepatitis B Virus Core Antigen is B Cell Dependent", <i>J. of General Virol.</i> (2003) 84:139-146		
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B52	LONDONO et al., "Immunisation of Mice Using <i>Salmonella typhimurium</i> Expressing Human Papillomavirus Type 16 E7 Epitopes Inserted into Hepatitis B Virus Core Antigen", <i>Vaccine</i> (1996) 14(6):545-552		
B53	LUCKOW, " <i>Insect Cell Expression Technology</i> " Chapter 7 in <i>Protein Engineering: Principle and Practice</i> , J.L. Cleland et al. eds., Wiley-Liss, Inc. (1996) pages 183-218		
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B55	MATTEUCCI et al., "Synthesis of Deoxyoligonucleotides on a Polymer Support", <i>J. Am. Chem. Soc.</i> (1981) 103:3185-3191		
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B66	SCHERLE et al., "Functional Analysis of Influenza-Specific Helper T Cell Clones in Vivo", <i>J. Exp. Med.</i> (October 1986) 164:1114-1128		
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B71	SEEGER et al., "Nucleotide Sequence of an Infectious Molecularly Cloned Genome of Ground Squirrel Hepatitis Virus", <i>J. Virol.</i> (August 1984) 51(2):367-375		
B72	STAHL, et al., "Hepatitis B Virus Core Antigen: Synthesis in <i>Escherichia coli</i> and Application in Diagnosis", <i>Proc. Natl. Acad. Sci. USA</i> (March 1982) 79:1606-1610		
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| B73 | TACKETT et al., "Safety and Immunogenicity in Humans of an Attenuated <i>Salmonella typhi</i> Vaccine Vector Strain Expressing Plasmid-Encoded Hepatitis B Antigens Stabilized by the Asd-Balanced Lethal Vector System", <i>Infect. & Immun.</i> (August 1997) 65 (8):3381-3385 |
| B74 | TREANOR et al., "Passively Transferred Monoclonal Antibody to the M2 Protein Inhibits Influenza A Virus Replication in Mice", <i>J. Virol.</i> (March 1990) 64 (3):1375-1377 |
| B75 | TSUDA et al., "Application of the Human Hepatitis B Virus Core Antigen from Transgenic Tobacco Plants for Serological Diagnosis", <i>Vox Sang</i> (1998) 74 :148-155 |
| B76 | TWELL et al., "The 5'-Flanking DNA of a Patatin Gene Directs Tuber Specific Expression of a Chimaeric Gene in Potato", <i>Plant Mol. Biol.</i> (March 1987) 9 :365-375 |
| B77 | VALENZUELA et al., "Purification of the Recombinant Hepatitis B core Antigen, and Its Potential Use for the Diagnosis of Hepatitis B Virus Infection", <i>Biocientologia Aplicada</i> (2002) 19 (3):136-142 |
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| B80 | YAMAMOTO et al., "Characterization of <i>cis</i> -Acting Sequences Regulating Root-Specific Gene Expression in Tobacco", <i>The Plant Cell</i> (April 1991) 3 :371-382 |
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| B85 | ZHENG et al., "The Structure of Hepadnaviral Core Antigens", <i>J. Biol. Chem.</i> (1992) 267 (13):9422-9429 |

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